



Sheet 1 of 6

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-5243	Application No. 10/665,822
	Applicant Vasulinga T. Ravikumar, et al.	
	Filing Date September 19, 2003	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
u	1	Celebuski, et al., "Synthesis and Utility of a DNA Phosphorylating Agent Based on 2-(Triphenylsilyl)ethanol", <i>J. Org. Chem.</i> , 57, (1992), 5535-5538
	2	Honda, et al., "2-Diphenylmethylsilylethyl Group as a New Protecting Group of Internucleotidic Phosphates in Oligonucleotide Synthesis", <i>Tetrahedron Letters</i> , (1981), 2093-2096
	3	March, "Advanced Organic Chemistry", John Wiley & Sons, New York, Third Edition, (1985), Chapter 1, pgs. 16-18 and Chapter 9, pgs. 237-239
	4	Streitwieser and Heathcock, "Introduction to Chemistry", Second Edition, (1981), Chapter 15, 437-440
	5	Takaku, et al., "Use of 1,1,1,3,3,3-Hexafluoro-2-Propyl Protecting Group in the Synthesis of DNA Fragments Via Phosphoramidite Intermediates", <i>Tetrahedron Letters</i> , 29, (1988), 81-84
	6	Beaucage, S. et al., "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach", <i>Tetrahedron</i> 1992, 48(12), 2223-2311.
	7	Burch, R. et al., "Oligonucleotides Antisense to the Interleukin 1 Receptor mRNA Block the Effects of Interleukin 1 in Cultures Murine and Human Fibroblasts and in Mice", <i>The Journal of Clinical Investigation, Inc.</i> 1991, 88, 1190-1196.
	8	Higgins, "Medical Sciences", <i>PNAS USA</i> 1993, 90, 9903-9905.
	9	Iyer, R. et al., "3H-1,2-Benzodithiole-3-one 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates", <i>J. Am. Chem. Soc.</i> 1990, 112, 1253-1254.
u	10	Iyer, R. et al., "The Automated Synthesis of Sulfur-Containing Oligodeoxyribonucleotides Using 3H-1,2-Benzodithiol-3-one 1,1-Dioxide as a Sulfur-Transfer Reagent", <i>J. Org. Chem.</i> 1990, 55(15), 4693-4699.
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	11	Kamer, P. et al., "An Efficient Approach Toward the Synthesis of Phosphorothioate Diesters via the Schonberg Reaction", <i>Tetrahedron Letters</i> 1989 , 30(48), 6757-6760.
	12	Kitajima, I. et al., "Ablation of Transplanted HTLV-I Tax-Transformed Tumors in Mice by Antisense Inhibitor of NF- κ B", <i>Science</i> 1992 , 258, 1792-1795.
	13	Offensperger, W.-B. et al., "In vivo Inhibition of Duck Hepatitis B Virus Replication and Gene Expression by Phosphorothioate Modified Antisense Oligodeoxynucleotides", <i>The EMBO Journal</i> 1993 , 12(3), 1257-1262.
	14	Rao, M.V. et al. "Dibenzoyl Tetrasulphide - A Rapid Sulphur Transfer Agent in the Synthesis of Phosphorothioate Analogues of Oligonucleotides", <i>Tetrahedron Letters</i> 1992 , 33(33), 4839-4842.
	15	Simons, M. et al., "Antisense c-myc Oligonucleotides Inhibit Intimal Arterial Smooth Muscle Cell Accumulation in vivo", <i>Nature</i> 1992 , 359, 67-70.
	16	Vu, H. et al., "Internucleotide Phosphite Sulfurization with Tetraethylthiuram Disulfide. Phosphorothioate Oligonucleotide Synthesis via Phosphoramidite Chemistry", <i>Tetrahedron Letters</i> 1991 , 32(26), 3005-3008.
	17	Vlassov, V., "Inhibition of Tick-Borne Viral Encephalitis Expression Using Covalently Linked Oligonucleotide Analogs", in "Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression: Therapeutic Implications", June 18-21, 1989, Sheraton Potomac Inn, Rockville, MD.
	18	Wright, P. et al., "Large Scale Synthesis of Oligonucleotides via Phosphoramidite Nucleosides and a High-loaded Polystyrene Support", <i>Tetrahedron Letters</i> 1993 , 34(21), 3373-3376.
	19	Wolter, A., et al., "Polymer Support Oligonucleotide Synthesis XX: Synthesis of Henhectacosa Deoxynucleotide by Use of a Dimeric Phosphoramidite Synthon", <i>Nucleosides & Nucleotides</i> 1986 , 5(1), 65-77.
	20	Bannwarth, W., "Synthesis of Oligodeoxynucleotides by the Phosphite-Triester Method Using Dimer Units and Different Phosphorous-Protecting Groups", <i>Helvetica Chimica Acta</i> 1985 , 68, 1907-1913.
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21	Miura, K. et al., "Blockwise MEchanical Synthesis of Oligonucleotides by the Phosphoramidite Method", <i>Chem. Pharm. Bull.</i> 1987 , 35(2), 833-836.			
22	Kumar, G. et al., "Improvements in Oligodeoxyribonucleotide Synthesis: Methyl <i>N,N</i> -Dialkylphosphoramidite Dimer Units for Solid Support Phosphite Methodology", <i>J. Org. Chem.</i> 1984 , 49, 4905-4912.			
23	Wyatt, J. et al, "Combinatorially Selected Guanosine-Quartet Structure is a Potent Inhibitor of Human Immunodeficiency Virus Envelope-Mediated Cell Fusion", <i>PNAS USA</i> 1994 , 91, 1356-1360.			
24	Ravikumar, V.T., et al., "Use of 2-diphenylmethylsilyethyl group (DPSE) protecting group in oligonucleotide synthesis via phosphoramidite approach," <i>Bioorg. Med. Chem. Lett.</i> , 1993 , 3, 2637-2640			
25	Ravikumar, V.T., et al., "Synthesis of oligonucleotides via phosphoramidite approach utilizing 2-diphenylmethylsilyethyl (DPSE) as a phosphorus protecting group," <i>Tetrahedron</i> , 1994 , 50(3), 9255-9266			
26	Koster, H., "Polymer support oligodeoxynucleotide synthesis XX," <i>Nucleosides, Nucleotides</i> , 1986 , 5, 65-77			
27	Seliger, "2.4. large-scale preparations combined with blockwise phosphotriester synthesis," <i>Methods in Molecular Biology: Protocols for Oligonucleotides and Analogs</i> , Agrawal (Ed.), 1993 , 20, 396-399			
28	Ecker, D.J., et al., "Rational screening of oligonucleotides combinatorial libraries for drug discovery," <i>Nucleic Acids Res.</i> , 1993 , 21, 1853-1856			
29	Tanaka, T., et al., "Synthesis of oligoribonucleotides via the phosphate-triester approach on a polymer support," <i>Chem. Pharm. Bull.</i> , 1986 , 34, 4126-4132			
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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>g</i>	30	4,458,066	7/3/84	Caruthers, et al.	536	27
	31	4,490,300	03/1990	Urdea, et al.	536	28.5
	32	4,725,677	2/16/88	Koster, et al.	536	27
	33	4,845,205	7/4/89	Huynh Dinh, et	536	28
	34	5,113,005	5/12/92	Celebuski	556	449
	35	3,687,808	08/29/72	Merigan Jr. et al	195	28N
	36	4,806,463	02/21/89	Goodchild et al.	435	5
	37	5,113,005	05/12/92	Celebuski	556	449
<i>M</i>	38	5,159,095	10/27/92	Celebuski	556	436
	39	4,458,066	07/03/84	Caruthers et al. <i>Duplicate</i>	536	27
<i>g</i>	40	5,264,423	11/23/93	Cohen et al.	514	44
	41	5,276,019	01/04/94	Cohen et al.	514	44
	42	4,786,724	11/1998	Letsinger	536	27
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EXAMINER <i>Jen Lin</i>				DATE CONSIDERED <i>7/15/04</i>		



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Examiner Initial		Document No.	Date	Name	Class	Subclass	
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Jen Li				7/15/03			

